

**Universiti Teknologi MARA**

**The Development of Accident Emergency System via  
Mobile Phone (ACCES): (MyServer)**

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By the name of ALLAH, the most Gracious and Most Merciful

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## ABSTRACT

Accident Emergency System (ACCES) is a mobile android application that help the victim when they are in emergency situation especially accident. This system is dividing into three modules that are client side, server side and hospital and police station side. ACCES is a helpful application because it provided services which can help the accident victim when they need help. There are four services that ACCES offered that are 'Request Ambulance', 'Location Finder', 'Request Address Nearest Hospital' and 'List of Hospital/Police Station'. This thesis will focus on server side module. The main reason why ACCES system is developed is because of the weakness of existing system for example MERS 999. MERS 999 is a helpful system but it takes longer time to reach the victim/accident location. In the current system, if there are reports about accident, the call center or operator will ask a lot of questions to the witness such as the location detail and more. Furthermore, the record that the operator got from the user will manually record or typing in the database. In some of cases, the operator mistyped the data received from the caller and the ambulance will be sent to the wrong location. Due to these weaknesses, Accident Emergency System via Android (ACCES) is introduced. The objective for the server side is to design a system that can provide details about the nearest hospital in a short time. The methodology used during the development of the system is agile methodology, where it is organized according to four phases which are design, development, testing and documentation phase. As the result, this system can improved the performance of the existing emergency system and can help the accident victim to get an ambulance immediately.

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# CHAPTER 1

## INTRODUCTION

Road accidents are horrific events which usually involved the collision between of two or more vehicles on the road or highway. In Malaysia the road accident is increasing from year to year due to increasing the number of vehicles. It may be able to cause dangerous to all people and has become one causes of death in Malaysia every year. As we known many factors that cause this problem and the main is from human especially human's attitude. It is because of an attitude of felling like disturbed, depressed, drive fast in a bad mood showed a significant tendency to road accidents. For example, they drive fast because of pressure to quickly arrive, late, rush road destination. Sometime, they are drive fast because of the challenge, have fun attitude habit, fun and love to drive fast. It is might be can contribute to the road accident. Second factors is poor of condition which is the road in Malaysia is narrow and sharp due to Earth surface. Next, climate factor which can limit visibility of the driver when they driving because of heavy rain. The last factor is vehicle factor which the vehicles are poorly maintained. For example, most causes of accidents involving large vehicle like buses and cargo trucks are caused by a brake that is not in good condition and cannot functional properly.

The road accident cannot be to prevent whether by having a stricter laws because it can be happen at anywhere and unexpected. Sometime it can happen when we just passing the road to the destination which you do not know where the nearest hospital then the victim required an immediate treatment. For this cases, the witness is needed a medium which allowed them to help the accident victim because in some of critical time the people cannot thick rationally.